

IN THE CLAIMS

Please amend the claims to read as indicated herein.

1. (previously presented) An optical device comprising:
an imaging device for imaging an incident beam onto a focal surface;
a support element having a surface with a shape corresponding to said focal surface,
said surface of said support element being located on said focal surface; and
a flexible sensor array in close contact with said surface of said support element and
having a surface with a shape corresponding to said focal surface.
2. (previously presented) The optical device of claim 1, wherein said flexible sensor array comprises a photosensitive element mounted on a flexible structure.
3. (previously presented) The optical device of claim 2, wherein said flexible structure conforms to said shape of said surface of said support element.
4. (previously presented) The optical device of claim 2, wherein said flexible structure is bonded to said surface of said support element.
5. (previously presented) The optical device of claim 2, wherein said flexible structure has a thickness in a range from 1 micrometer to 0.1 millimeters.
6. (original) The optical device of claim 1, wherein said sensor array comprises a photodiode line.
7. (original) The optical device of claim 1, wherein said imaging device comprises a grating.
8. (original) The optical device of claim 1, wherein said focal surface is defined by a Rowland Circle.

9. (previously presented) An optical device comprising:
an imaging device for imaging an incident beam on a focal surface; and
a flexible sensor array formed to a shape of said focal surface by fixing at least a portion of said flexible sensor array.
10. (previously presented) The optical device of claim 9, wherein said at least a portion of said flexible sensor array comprises at least two ends of said flexible sensor array.
11. (previously presented) The optical device of claim 9, wherein said at least a portion of said flexible sensor array comprises at least two points located on a surface of said flexible sensor array.
12. (previously presented) The optical device of claim 9, wherein said at least a portion of said flexible sensor array comprises at least two points located on an edge of said flexible sensor array.
13. (previously presented) The optical device of claim 9, wherein said at least a portion of said flexible sensor array comprises at least two points located on different edges of said flexible sensor array.
14. (previously presented) The optical device of claim 9, further comprising a support element wherein said at least a portion of said flexible sensor array is fixed to said support element and said support element forms said flexible sensor array to said shape of said focal surface.
15. (previously presented) The optical device of claim 9, wherein said flexible sensor array comprises a photosensitive element mounted on a flexible structure.

16. (previously presented) The optical device of claim 15, wherein said flexible structure has a thickness in a range from 1 micrometer to 0.1 millimeters.

17. (previously presented) The optical device of claim 9, wherein said flexible sensor array comprises a photodiode line.

18. (previously presented) The optical device of claim 9, wherein said imaging device comprises a grating.

19. (previously presented) The optical device of claim 9, wherein said focal surface is defined by a Rowland Circle.

20. (previously presented) An optical device comprising:
an imaging device for imaging an incident beam onto a focal surface;
a support element having a surface conforming to and being located on said focal surface; and
a flexible sensor array affixed to said surface of said support element and having a surface with a shape corresponding to said focal surface.

Please add the following claim, newly numbered as claim 21

21. (new) An optical device comprising:
an imaging device for imaging an incident beam onto a curved focal surface;
a support element having a surface conforming to and being located on said curved focal surface; and
a flexible semiconductor array of photosensitive elements affixed to said surface of said support element and having a surface that conforms to said curved focal surface.